HEWLETT® PACKARD

HP D2832A

HP M500

15-inch Color Monitor
13.8-inch Viewable Image
User's Guide

15-Zoll-Farbbildschirme
13.8 Zoll Bildanzeige
Benutzerhandbuch

Moniteurs couleur 15 pouces
Affichage 13,8 pouces
Guide de l'utilisateur

Pantallas de color de 15 pulgadas
13.8 pulgadas de imagen visualizada
Manual del Usuario ***Léase esto primero***

Video a colori da 15 pollici
13.8 effetivi per l'immagine
Manuale utente

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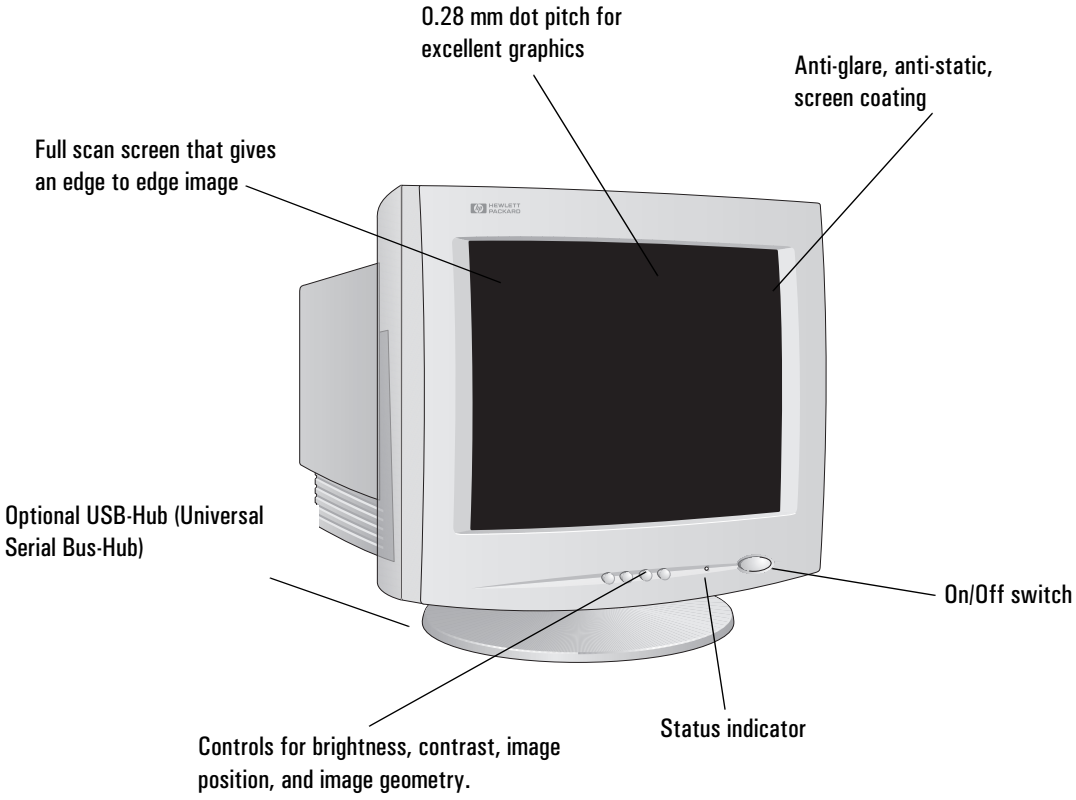

0.28 mm dot pitch for excellent graphics
Anti-glare, anti-static, screen coating
Full scan screen that gives an edge to edge image
Optional USB-Hub (Universal Serial Bus-Hub)
On/Off switch
Status indicator
Controls for brightness, contrast, image position, and image geometry.

HP M500
15-inch Color Monitor
13.8-inch Viewable Image

User's Guide

Important Safety Instructions

Before you plug in your new monitor, read these important safety instructions.

WARNING

Connect the monitor only to a grounded power outlet. Use the power cord supplied with the monitor or one with a properly grounded plug. Ensure the cable meets your country's standards for safety.

To completely disconnect power at the monitor, remove the power cord from the power outlet. Ensure that the power outlet is easily accessible.

Make sure the power to your computer is "off" before connecting or disconnecting any monitor peripheral.

To reduce the risk of electric shock, do not remove cover(or back). There are no user servicable parts inside. Refer servicing to qualified service personnel.

The monitor is quite heavy(the weight is shown in the technical specifications). We recommend you ask the assistance of a second person when lifting or moving it.

USA and Canada

If the power cord is not supplied with your monitor, select the proper power cord according to your national electric safety codes.

- USA: use a UL Listed Type SVT or Type SJT detachable power cord.
- Canada: use a CSA certified detachable power cord.

Si le cordon secteur n'est pas livré avec votre moniteur, utiliser un cordon secteur en accord avec votre code électrique national.

- USA: utiliser un cordon secteur UL Listé de type SVT ou SJT.
- Canada: utiliser un cordon secteur certifié CSA.

What Your New Monitor Offers

Your HP monitor is a 15-inch (13.8-inch viewable image), high resolution, multi-synchronous color monitor. Multi-synchronous means that the monitor supports a range of video modes. It is optimized to be used with all Hewlett-Packard PCs.

Your HP color monitor has the following features:

- A 15-inch flat square tube, with a 13.8-inch viewable image, and 0.28 mm dot pitch for excellent graphics.
- Anti-glare, multilayer coating to minimize reflection.
- Support of video modes up to Ultra VGA 1024×768 at a 85Hz refresh rate, and up to Ultra VGA 1280×1024 using a 60 Hz refresh rate.
- Image adjustment using on screen display menus. Includes color adjustment and image rotation controls to optimize the quality and position of the image.
- Monitor power management system (VESA[1] standard) controlled from suitably equipped HP PCs to automatically reduce the power consumption of the monitor. Complies with the Energy Star Computers Program initiated by the US EPA[2]. As an Energy Star Partner, Hewlett Packard has determined that this product meets the Energy Star guidelines for energy efficiency.[3]
- Plug and Play capability (VESA DDC1/2B standard) that enables the monitor to identify itself to suitably equipped HP PCs.
- Compliance with ISO 9241-3, ISO 9241-8 and ZH-1/618 ergonomic standards.
- Complies with MPRII guidelines for upper limits of electrical and electrostatic emissions, from the Swedish National Board for Measurement and Testing. Your HP D2832A monitor complies with the Swedish standard MPR III, level B, for electric and magnetic field emission.

1. VESA is the Video Electronics Standards Association
2. The US EPA is the United States Environmental Protection Agency
3. ENERGY STAR is a US registered service mark of the US EPA.

- Your HP D2832A monitor is certified to TCO95.[1]
- Your monitor can be upgraded with a USB-Hub (Universal Serial Bus- Hub). This is plugged into the back of your monitors base and allows you to connect up to 4 USB devices (*refer to note below*).

NOTE This USB option may not be available in all countries. Please contact your HP representative for further information.

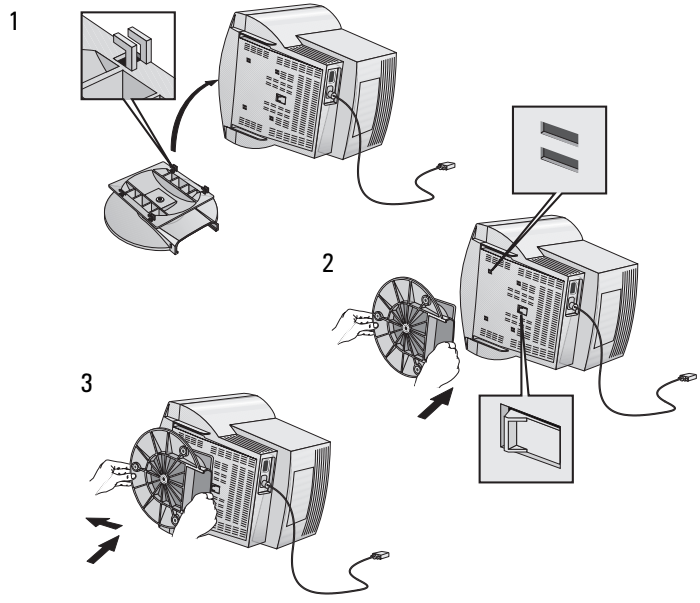
1. Swedish Confederation of professional Employees.

Setting Up Your Monitor

Attaching the Tilt and Swivel Base

Your display has a tilt and swivel base. To fit and tilt the swivel base:

1 Turn the display on its side (never on the screen). Identify the front of the base.
2 Locate the slots in the underside of the display.
3 Slide the base towards the front of the display until the locking tab on the base clicks into place.



Where to Place the Monitor

Place your monitor on a flat sturdy surface.

Ensure the operating site is free from excessive heat, moisture, dust and sources of electromagnetic fields. Sources of electromagnetic fields include transformers, motors, and other monitors.

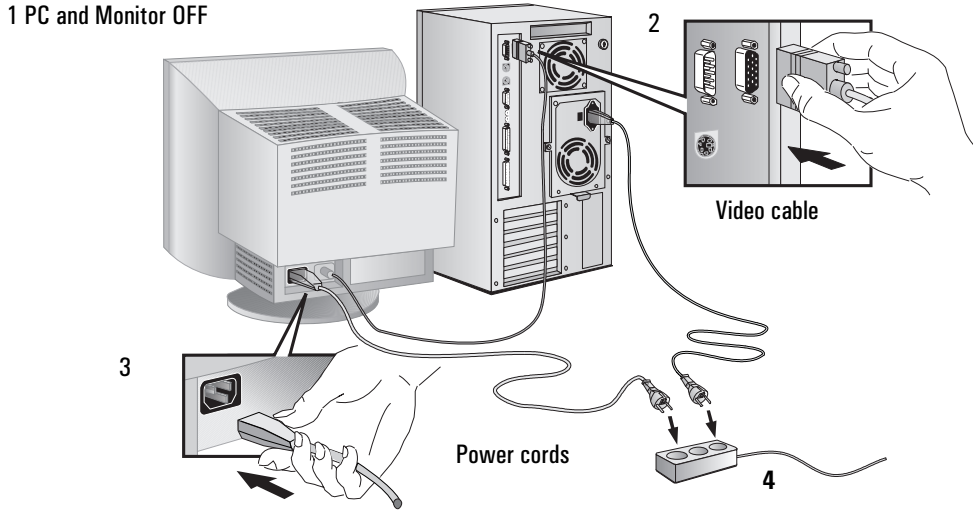
Avoid exposing the monitor to direct sunlight.

Connecting the Cables

CAUTION

Before you connect any cables, or install your HP monitor, refer to the safety instructions at the beginning of this manual. Refer to the user manual which accompanies your PC and video adapter to ensure this equipment is correctly installed.

1 Make sure that your PC and monitor are switched off.
2 Connect the video cable (it has a 15-pin plug) to the video outlet on your PC. Tighten the thumbscrews on the plug.
3 Connect the power cord to the monitor.
4 Plug the power cord into the grounded power outlet.



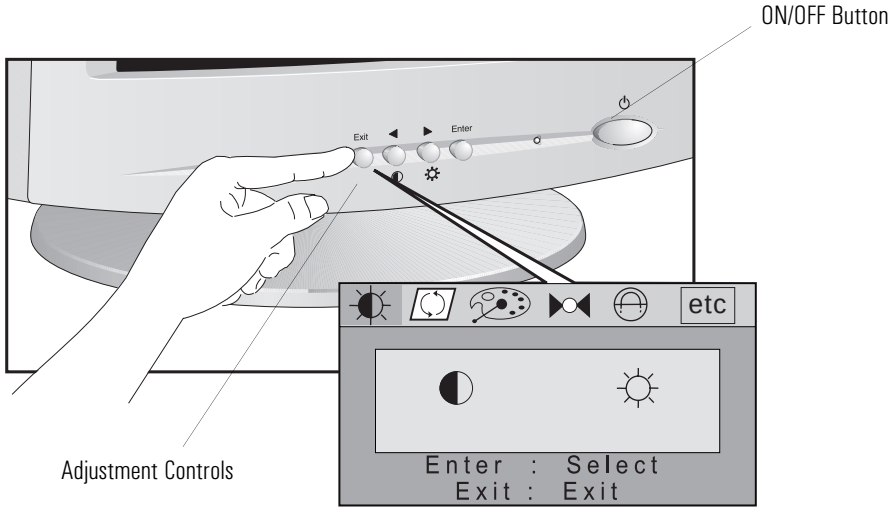
NOTE

The location of your PC's video outlet may be different to the one shown in the diagram. Refer to the manual that came with your PC, if necessary.

Using Your Monitor

The ON /OFF switch ⏻ is on the front of the monitor.

You can adjust the quality, position, size, shape and color of the displayed image using the controls on the front of the monitor to operate on screen menus.



Pressing the **Enter** or **Exit** button activates the monitor's on screen main menu.

To select a feature, use the ◀ and ▶ adjustment controls to scroll to the adjustment feature you require and press **Enter** to access it's menu.

⋈ Reset to Default

To revert to preset factory settings, select ⋈ from the main menu, then press **Enter**.

Adjusting the Language of Your On Screen Display

ABC Language Select

To set the language of your on screen display, select etc from the main menu, and ABC from the submenu that appears. Use the ◀ and ▶ adjustment controls to select a language and press **Exit** to save your adjustments.

Adjusting the Quality of the Displayed Image

Adjustments to the quality of the displayed image can be made from a submenu. To access this submenu, select from the main menu.

 Contrast

To adjust the contrast, select this feature from the submenu, then adjust the contrast using the ◀ and ▶ adjustment controls. Press **Exit** to save your adjustments. (Contrast is the difference in brightness between the dark and light parts of the displayed image)

Brightness

To adjust the overall picture brightness, select this feature from the submenu, then adjust the brightness using the ◀ and ▶ adjustment controls. Press **Exit** to save your adjustments. (The brightness should be set so that the dark areas of the displayed image remain black)

NOTE

You can access the contrast and brightness directly using the ◀ and ▶ controls respectively. Adjust the quality using the ◀ and ▶ adjustment controls as required. Press **Exit** to save your adjustments.

Degauss

To degauss the monitor, select this feature from the main menu, then press **Enter**. Degaussing keeps the monitor free from unwanted magnetism that can result in color impurity. It is recommended that you degauss at least every week. Degaussing is accompanied by brief instability of the displayed image and a slight humming sound.

Adjusting the Size, Position, and Shape of the Displayed Image

Adjustments to the size, position, and shape of the displayed image can be made from a submenu. To access this submenu menu, select from the main menu.

Hor. Size

To adjust the horizontal size of the displayed image, select from this submenu, then use the ◀ and ▶ adjustment controls to resize. Press **Exit** to save your adjustments.

Hor. Position

To adjust the horizontal position of the displayed image, select from this submenu, then use the ◀ ▶ adjustment controls to locate the image. Press **Exit** to save your adjustments.

Ver. Size

To adjust the vertical size of the displayed image, select from this submenu, then use the ◀ and ▶ adjustment controls to resize. Press **Exit** to save your adjustments.

Ver. Position

To adjust the vertical position of the displayed image, select from this submenu, then use the ◀ and ▶ adjustment controls to locate the image. Press **Exit** to save your adjustments.

Trapezoid

To adjust the displayed image if its vertical edges do not appear parallel, select from this submenu and use the ◀ and ▶ adjustment controls to correct the distortion. Press **Exit** to save to your adjustments.

Pincushion

To adjust the displayed image if its vertical edges appear to bow in or out, select from this submenu and reshape using the ◀ and ▶ adjustment controls. Press **Exit** to save your adjustments.

Unbalance

To adjust the displayed image if its edges appear to bow left or right, select from this submenu and reshape using the ◀ and ▶ adjustment controls. Press **Exit** to save your adjustments.

Parallelogram

To adjust the displayed image if the edges appear to tilt to the left or right, select from this submenu and use the ◀ and ▶ adjustment controls to correct the distortion. Press **Exit** to save your adjustments.

Rotation

Depending on the orientation of your monitor, for example, whether it faces north or south, you may experience some rotation of the image. This effect is due to the influence of the earth's magnetic field and is normal for all monitors. To adjust the displayed image if it appears to be rotated, select from the menu and use the ◀ and ▶ adjustment controls to re-orient the image.

Adjusting the Color of the Displayed Image

Adjustments to the color of the displayed image can be made from a submenu. To access this submenu, select from the main menu.

Your monitor displays a combination of red, blue, and green to show a full color image. If you want to change the proportions of red, blue, and green used by your monitor you will need to change the color temperature.

To Select a Preset Color Temperature

Your monitor is shipped with five preset color temperatures: 9300K, 6500K, 5500K, 7100K, and 11500K.

Color Adjustment

Use the ◀ and ▶ adjustment controls to select a color temperature. Press **Exit** to save your selection.

Adjusting the Color Temperature Setting

You can adjust the color temperature settings. To adjust the these settings press **Enter** from the Color Temperature Adjustment menu.

Select Red, Green, or Blue using the ◀ and ▶ adjustment controls, then use these controls again to adjust the color level. Press **Exit** to save your adjustments.

NOTE

You can restore the factory preset color temperature settings by selecting the ⋈ icon and pressing **Enter** to save this selection.

Adjusting the Position of your On Screen Menu

OSD position

To set the position of your on screen menu, select etc from the main menu, and from the submenu that appears. Use the ◀ and ▶ adjustment controls to select either horizontal or vertical adjustment, then use these controls again to move the on screen menu. Press **Exit** to save your adjustments.

Setting the Amount of Displayed Information

To set the amount of displayed information, change the *screen resolution* of your PC. The higher the screen resolution, the more information you can see on the screen. It is recommended that you use a resolution of 1024×768 at 85Hz. This gives easy-to-read characters, a large amount of displayed information, and a flicker-free image.

You can make adjustments to the displayed image and they are automatically saved for the resolution you are using. For example, if you adjust your monitor when working in SVGA those settings are saved for SVGA. If you then work in VGA and change the image settings, they are saved for VGA. The next time you switch back to SVGA, your previous settings are used automatically.

To find out which resolutions are supported by your monitor, refer to "What Video Modes are Supported" on page 13. To change the screen resolution, please refer to the manual that came with your PC or your operating system documentation, if necessary.

Your monitor has a Plug and Play capability (VESA DDC1/2B standard) that enables it to identify itself to suitably equipped HP PCs. This will automatically give you the best refresh rate for the resolution that you have set. Also, by using the appropriate software (when available), you can adjust the monitor settings directly from your PC.

Minimizing Eye Strain

To avoid screen flicker and minimize eye strain, use the highest supported *image refresh rate* for the chosen resolution. The image refresh rate is the number of times per second that the image is refreshed. It is recommended that you use a resolution of 1024×768 at 85Hz refresh rate.

To find out which image refresh rates are supported by your monitor, refer to "What Video Modes are Supported" on page 13. To set the image refresh rate (also known as the *vertical frequency*), refer to the manual that came with your PC or your operating system documentation, if necessary. If your PC supports Plug and Play, it will automatically select the best refresh rate for the screen resolution you have set.

Minimizing Energy Consumption

Your monitor has energy saving capabilities. Depending on your PC and operating system, your monitor will be able to enter the following modes:

- Sleep mode (DPMS Standby mode). This mode uses less than 15W. In this mode the screen blanks and the monitor's front panel indicator light is constant amber. The monitor remains active but no image is displayed. Move your mouse or press a key to instantly restore the monitors image.
- Suspend mode (ACPI state D2). This mode uses less than 15W. In this mode the screen blanks and the monitor's front panel indicator light is constant amber. To reactivate the screen, move your mouse or press a key on your keyboard. The monitor will restore the image after a few seconds.
- Off mode(On Now Soft Mode). This mode uses less than 5W. The screen blanks and the monitor's front panel indicator light blinks rapidly in amber.

To set these power saving modes, refer to the manual that came with your PC. If your screen is not displaying an image, check the front panel indicator light first — your monitor may be in a power saving mode.

What Video Modes are Supported

Your monitor supports the video modes shown in the table below.

Screen Resolution	Image Refresh Rate	Video Solution
640×400	70 Hz	VGA
640×480	60 Hz	VGA
640×480	75 Hz	VGA
640×480	85 Hz	VGA
800×600	72 Hz	Super VGA
800×600	75 Hz	Ergonomic Super VGA
800×600	85 Hz	Super VGA
1024×768	70 Hz	Ultra VGA 1024
1024×768	75 Hz	Ultra VGA 1024
1024×768	85 Hz	Ultra VGA 1024
1280×1024	60 Hz	Ultra VGA 1280

CAUTION

Selecting a video mode on your PC with a screen resolution/image refresh rate combination higher than 1280×1024 at 60Hz can damage your monitor.

Technical Specifications

PICTURE TUBE	Size	15-inch flat screen/ 13.8-inch viewable image
	Phosphorous	Red, Green, Blue short persistence
	Dot pitch	0.28 mm
	Face Plate	Anti-glare, multi-layer coating, anti-static
INPUT SIGNAL	Video	0.7 Vp p analog RGB, no setup
	Synchronization	Separated H/V (TTL), H/V mixed (TTL level)
INTERFACE	Input Connector	15-pin mini D-SUB
SCANNING FREQUENCY	Horizontal	30 to 70kHz
	Vertical	50 to 120 Hz
MAX. RESOLUTION (H×V)	1280 × 1024 (60Hz)	
WARM-UP TIME	30 minutes to reach optimum performance level	
PIXEL CLOCK	110 MHz	
IMAGE SIZE	Diagonal: 351mm(13.8-inch) Maximum Size: 283(W) × 212(H)mm	
POWER SOURCE	AC 90 to 264 V, 47 to 63 Hz ON 75W (max) Sleep Mode (DPMS Standby) 15 W (max) Suspend Mode (ACPI state D2) 15W (max) Off Mode (On Now Soft Mode) 5W(max)	
OPERATING ENVIRONMENT	Temperature	0 °C to 40 °C (operating) - 25°C to + 65 °C (storage)
	Humidity	10% RH through 80% RH (without condensation)
CABINET DIMENSIONS	376(W) × 373(H) × 385(D) mm	
WEIGHT	12.5 kg	
TILT/SWIVEL STAND	Tilt Angle	- 5° to + 15°
	Swivel Angle	±45°

Care and Cleaning

Do not place anything on top of the monitor. Doing so may block the monitor vents and cause damage to the monitor due to overheating.

Do not let liquid get on or into the monitor.

To maximize screen life and prevent damage to the picture tube (such as *burned phosphor* due to leaving the same image on the screen for a long time), it is recommended that you:

- Use the monitor power management system (on HP PCs) or a screen saver program.
- Avoid setting contrast and brightness to their maximum levels for prolonged periods.
- If you do not have a power management system or a screen saver program, switch the monitor off or reduce the brightness and contrast to minimum levels when the monitor is not in use.

Your monitor has an anti-glare, anti-static screen coating. To prevent damage to the monitor screen's coating, use a regular household glass cleaner when cleaning the screen. To clean the screen:

1 Switch the monitor off and remove the power plug (pull the plug, not the cable).

2 Wet a soft cotton cloth with the cleaning solution and gently wipe the screen. Do not spray cleaner onto the screen because the cleaner may drip inside the monitor.

3 Dry with a clean, soft cotton cloth.

Do not use cleaning solutions containing fluoride, acids, or alkalis.

Environmental Information

HP has a strong commitment toward the environment. Your HP monitor has been designed to respect the environment as much as possible.

HP can also take back your old monitor for recycling when it reaches the end of its useful life.

HP has a product take-back program in several countries. The collected equipment is sent to of HP's recycling facilities in Europe or the USA. As many parts as possible are reused. The remainder is recycled. Special care is taken for batteries and other potentially toxic substances, which are reduced to non-harmful components through a special chemical process. If you require more details about HP's product take-back program, contact your dealer or your nearest HP Sales Office.

The cathode ray tube used in this monitor does not contain cadmium.

Hardware Warranty

This is your HP Monitor Hardware Warranty Statement. Warranty terms may be different in your country. If so, your Authorized HP Dealer or Hewlett-Packard Sales and Service Office can give you details.

For Consumer Transactions in Australia and New Zealand: The warranty terms contained in this statement, except to the extent lawfully permitted, do not exclude, restrict or modify and are in addition to the mandatory statutory rights applicable to the sale of this product to you.

Limited Monitor Hardware Warranty

Model	Warranty Period	Service provided
Model D2832A	3 years - unless original end-user customer has otherwise agreed to a shorter period of warranty at the time of purchase.	On-site service for 1st year, and return to an HP or repair-authorized reseller service-center for the following two years.

Hewlett-Packard (HP) warrants this monitor hardware product against defects in materials and workmanship for the applicable warranty period stated above, commencing from the date of purchase by you, the original end-user customer. If you return this monitor hardware product with a defect as defined above, during the warranty period, to an HP-authorized reseller or service center, HP will either, at its option, repair or replace the defective product with a new or equivalent-to-new unit of the same or equivalent model. Should HP be unable to repair or replace the product within a reasonable amount of time, your alternate exclusive remedy shall be a refund of the purchase price upon return of the product.

If you purchased this monitor hardware product for use with an HP personal computer (Vectra, Brio or Kayak), please refer to the terms and conditions of the HP Hardware Warranty statement provided with your HP personal computer (Vectra, Brio or Kayak), including limitations, your responsibilities and method for obtaining warranty service.

Limitation of Warranty

The above warranty shall not apply to defects resulting from: misuse (including "burned" screens); unauthorized modification; operation or storage outside the environmental specifications for this monitor product; in-transit damage; improper maintenance; or defects resulting from use of non-HP software, accessories, media, supplies, consumables, or such items not designed for use with this product.

HP MAKES NO OTHER EXPRESS WARRANTY, WHETHER WRITTEN OR ORAL, WITH RESPECT TO THIS PRODUCT. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY SET FORTH ABOVE.

Some states or provinces do not allow limitations on warranty, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state, or province to province.

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THE REMEDIES PROVIDED ABOVE ARE YOUR SOLE AND EXCLUSIVE REMEDIES. IN NO EVENT SHALL HP BE LIABLE FOR ANY OTHER DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER BASED ON WARRANTY, CONTRACT, TORT, OR ANY OTHER LEGAL THEORY.

The foregoing limitation of liability shall not apply in the event that any HP product sold hereunder is determined by a court of competent jurisdiction to be defective and to have directly caused bodily injury, death, or property damage; provided, that in no event shall HP's liability for property damage exceed the greater of $50,000 or the purchase price of the specific product that caused such damage.

Some states or provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

Regulatory Information

DECLARATION OF CONFORMITY
according to ISO/IEC Guide 22 and EN 45014

Manufacturer's Name:	**HEWLETT-PACKARD**
Manufacturer's Address:	5, Avenue Raymond Chanas - EYBENS 38053 GRENOBLE CEDEX 09 FRANCE

declares, that the product:

Product Name:	HP M500 15-inch Color Monitor
Model Number:	D2832A

conforms to the following product specifications:

SAFETY	International: IEC 950:1991 + A1 + A2 + A3 + A4 Europe: EN 60950:1992 + A1 + A2 + A3
EMC	CISPR 22:1993 + A1 / EN 55022:1994 - Class B EN 50082-1:1992 IEC 801-2:1992 / prEN 55024-2:1992 - 4kV CD, 8 kV AD IEC 801-3:1984 - 3V/m IEC 801-4:1988 / prEN 55024-4:1992 - 1 kV Power Lines IEC 555-2:1982 + A1:1985 / EN 60555-2:1987 IEC 1000-3-3:1994 / EN 61000-3-3:1995 FCC Title 47 CFR, Part 15 class B2)/ ICES-003, Issue 2/ VCC-2 1) AS/NZ 3548

Supplementary information: the product herewith complies with the requirements of the EMC Directive 89/336/EEC amended by the Directive 93/68/EEC and the Low Voltage Directive 73/23/EEC, and carries the CE marking accordingly.
1) The product was tested in a typical configuration with Hewlett-Packard Personal Computer Systems.
2) This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Jean Marc JULIA

Grenoble, June 1998

Quality Manager

For Compliance Information ONLY, contact:
USA contact: Hewlett-Packard Company, Corporate Product Regulations Manager, 3000 Hanover Street, Palo Alto, CA94304. (Phone (415)857-1501)

Notice for the USA: FCC Statement

Federal Communications Commission (FCC) Radio

Frequency Interference Statement (USA Only)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protections against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try one of more of the following measures:

- Relocate the radio or television antenna.
- Move the computer away from the radio or television.
- Plug the computer into a different electrical outlet, so that the computer and the radio or television are on separate electrical circuits.
- Make sure that all your peripheral devices are also FCC Class B certified.
- Make sure you use only shielded cables to connect peripheral devices to your computer.
- Consult your computer dealer, Hewlett-Packard, or an experienced radio/television technician for help.

WARNING

Hewlett-Packard's system certification tests were conducted with HP-supported peripheral devices and HP shielded cables, such as those you received with your system. Cables used with this computer must be properly shielded to comply with the requirements of the FCC.

Changes or modifications not expressly approved by Hewlett-Packard could void the user's authority to operate the equipment.

X-Ray Radiation Notice

When operating, this product emits x-rays; however, it is well shielded and meets the safety and health requirements of various countries, such as the Radiation Act of Germany and the Radiation Control for Health and Safety Act of the United States.

Radiation emitted by this product is less than 0.1 mR/hr (1uSv/hr) at a distance of 10 centimeters from the surface of the cathode ray tube. The x-ray radiation primarily depends on the characteristics of the cathode ray tube and its associated low voltage and high voltage circuitry. Internal controls have been adjusted to ensure safe operation. Only qualified personnel should perform any internal adjustments as specified in the service manual for this product.

Replace the cathode ray tube with an identical CRT only.

General Notice

The HP D2832A 15-inch Color Monitor has been tested according to MPR 1990:8 for Emission properties and meets the guidelines as given by MPR 1990:10 (2.01 - 2.04)

Notice for Japan

この装置は，情報処理装置等電波障害自主規制協議会（ＶＣＣＩ）の基準に基づくクラスＢ情報技術装置です。この装置は，家庭環境で使用することを目的としていますが，この装置がラジオやテレビジョン受信機に近接して使用されると，受信障害を引き起こすことがあります。
取り扱い説明書に従って正しい取り扱いをして下さい。

『当社は国際エネルギースタープログラムの参加事業者として、本製品が
国際エネルギースタープログラムの基準に適合していると判断します。』

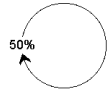
Notice for Canada

This Class "B" digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la Classe B est conforme a la norme NMB-003 du Canada.

Notice for the United Kingdom

The HP D2832A is approved under Approval Number NS/G/1234/J/100003 for indirect connection to public telecommunications systems within the United Kingdom.



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